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To: [Chip Humphrey/R10/USEPA/US@EPA](#); [Eric Blischke/R10/USEPA/US@EPA](#)
Cc: [Kristine Koch/R10/USEPA/US@EPA](#); [Sandy Browning](#); [Gene Revelas](#); [Christine Hawley](#); [Bob Wyatt](#); [david.ashton@portofportland.com](#); [wolffg@plu.edu](#); [J. Betz](#); [jpisano@anchorenv.com](#); [Jim.McKenna@portofportland.com](#); [Patty Dost \Schwabe\](#); [Rick Applegate](#); [Valerie Oster](#)
Subject: FW: For EPA Approval - LWG Round 3B Surface Sediment Field Program Field Modification Requests
Date: 11/20/2007 03:50 PM

[Chip, Eric,](#)

[Please see below for your consideration.](#)

[cheers](#)
[valerie](#)

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From: Sandy Browning [<mailto:sbrowning@integral-corp.com>]
Sent: Tuesday, November 20, 2007 3:35 PM
To: Valerie Oster
Cc: Gene Revelas; Christine Hawley; Bob Wyatt; mckenj@portptld.com; Rick Applegate; ashtod@portptld.com
Subject: For EPA Approval - LWG Round 3B Surface Sediment Field Program Field Modification Requests

Valerie,

Please forward to EPA.

Chip and Eric,

As mentioned on our teleconference yesterday (11/19), the LWG is requesting your review and approval of the following:

1. Revised sampling locations. Integral is unable to obtain suitable surface sediment samples at two locations: G670 and G684.

- G670 is located on the fringe of the McCormick & Baxter cap where hard substate was encountered. Multiple attempts were made within a 50-ft radius of the target location per the FSP. The LWG proposes moving the station 100 ft from the original target into the channel.

The revised location should be located off and downgradient of the cap.

- G684. No attempts were made at this location because a barge is moored here and has been for several months. The LWG proposes moving the station 100 ft "downshore". The revised station will be situated at the same approximate bathymetric contour while avoiding the barge. Sampling either upstream or offshore of the original target would encroach on other Round 3B sampling locations.

2. Revised approach for sampling the remainder of upriver sediment samples. Integral has visited all 12 upriver surface sediment sampling locations identified in the FSP for supplementing the background dataset. The existing dataset tends to be composed of coarse-grained sediments with most being <25% fines. In Round 3B, the field crew targeted the collection of sediment samples with >50% fines to better reflect the grain-size distribution of the Study Area. Using wet-sieve methods, 4 of the 12 areas generated samples with >50% fines: 2, 3, 6, and 12. Twelve (12) samples (3 from each location) have been retained for analysis. Adding in the 4 reference samples, we currently have a total of 16 samples to supplement the background dataset. All other sampling location sediments were either nonexistent (rock), or consisted of sand, gravel, or cobble (see attached table).

The FSP calls for the collection of 24-36 upriver surface sediment samples (2-3 samples per location) for this task. Based on visual observations and the wet-sieve results, we propose collecting 2 additional samples from each of the same 4 locations to bring the total up to 24. These locations seem to provide fairly good spatial coverage (RMs 16.6-17, RM 17.1, RM 18.8, RM 23.2). This approach will also keep us on schedule.

Thank you and we look forward to your response.

Sandy

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